

## Application for Federal Assistance SF-424

\* 1. Type of Submission:

- ☐ Preapplication  
☐ Application  
☒ Changed/Corrected Application

\* 2. Type of Application:

- ☒ New  
☐ Continuation  
☐ Revision

\* If Revision, select appropriate letter(s):

\* Other (Specify):

\* 3. Date Received:

Completed by Grants.gov upon submission.

4. Applicant Identifier:

5a. Federal Entity Identifier:

5b. Federal Award Identifier:

### State Use Only:

6. Date Received by State:

7. State Application Identifier:

### 8. APPLICANT INFORMATION:

\* a. Legal Name:

Virginia Department of Environmental Quality

\* b. Employer/Taxpayer Identification Number (EIN/TIN):

54-1661753

\* c. Organizational DUNS:

8097437680000

### d. Address:

\* Street1:

1111 East Main Street, Suite 1400

Street2:

\* City:

Richmond

County/Parish:

\* State:

VA: Virginia

Province:

\* Country:

USA: UNITED STATES

\* Zip / Postal Code:

23219-3531

### e. Organizational Unit:

Department Name:

Air Monitoring

Division Name:

Air Quality

### f. Name and contact information of person to be contacted on matters involving this application:

Prefix:

Mr.

\* First Name:

Charles

Middle Name:

L.

\* Last Name:

Turner

Suffix:

Title:

Manager, Office of Air Quality Monitoring

Organizational Affiliation:

Virginia Department of Environmental Quality

\* Telephone Number:

804 527 5178

Fax Number:

804 527 5160

\* Email:

charles.turner@deq.virginia.gov

## Application for Federal Assistance SF-424

### \* 9. Type of Applicant 1: Select Applicant Type:

A: State Government

Type of Applicant 2: Select Applicant Type:

Type of Applicant 3: Select Applicant Type:

\* Other (specify):

### \* 10. Name of Federal Agency:

Environmental Protection Agency

### 11. Catalog of Federal Domestic Assistance Number:

66.034

CFDA Title:

Surveys, Studies, Research, Investigations, Demonstrations, and Special Purpose Activities  
Relating to the Clean Air Act

### \* 12. Funding Opportunity Number:

EPA-OAR-OAQPS-20-05

\* Title:

Community-Scale Air Toxics Ambient Monitoring

### 13. Competition Identification Number:

NONE

Title:

None

### 14. Areas Affected by Project (Cities, Counties, States, etc.):

VADEQ - CSATAM Request - Areas affected by

Add Attachment

Delete Attachment

View Attachment

### \* 15. Descriptive Title of Applicant's Project:

VADEQ \_ Community-Scale Air Toxics Ambient Monitoring Request

Attach supporting documents as specified in agency instructions.

Add Attachments

Delete Attachments

View Attachments

**Application for Federal Assistance SF-424****16. Congressional Districts Of:**

\* a. Applicant VA-003

\* b. Program/Project VA-003

Attach an additional list of Program/Project Congressional Districts if needed.

Add Attachment

Delete Attachment

View Attachment

**17. Proposed Project:**

\* a. Start Date: 10/01/2020

\* b. End Date: 09/30/2023

**18. Estimated Funding (\$):**

* a. Federal	\$526,603.00
* b. Applicant	0.00
* c. State	0.00
* d. Local	0.00
* e. Other	0.00
* f. Program Income	0.00
* g. TOTAL	\$526,603.00

**\* 19. Is Application Subject to Review By State Under Executive Order 12372 Process?**☒ a. This application was made available to the State under the Executive Order 12372 Process for review on

5/4/20

☐ b. Program is subject to E.O. 12372 but has not been selected by the State for review.☐ c. Program is not covered by E.O. 12372.**\* 20. Is the Applicant Delinquent On Any Federal Debt? (If "Yes," provide explanation in attachment.)**☐ Yes☒ No

If "Yes", provide explanation and attach

Add Attachment

Delete Attachment

View Attachment

21. \*By signing this application, I certify (1) to the statements contained in the list of certifications\*\* and (2) that the statements herein are true, complete and accurate to the best of my knowledge. I also provide the required assurances\*\* and agree to comply with any resulting terms if I accept an award. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties. (U.S. Code, Title 218, Section 1001)

☒ \*\* I AGREE

\*\* The list of certifications and assurances, or an internet site where you may obtain this list, is contained in the announcement or agency specific instructions.

**Authorized Representative:**

Prefix: Ms. \* First Name: Valerie

Middle Name:

\* Last Name: Thomson

Suffix:

\* Title: Director of Administration

\* Telephone Number: 804 698 4157

Fax Number: 804 698 4178

\* Email: valerie.thomson@deq.virginia.gov

\* Signature of Authorized Representative: Completed by Grants.gov upon submission.

\* Date Signed: 9/30/2020  
Completed by Grants.gov upon submission.

**VADEQ****Community-Scale Air Toxics Ambient Monitoring Request  
Areas Affected by Project**

- Norfolk, VA
- Newport News, VA

# BUDGET INFORMATION - Non-Construction Programs

OMB Number: 4040-0006  
Expiration Date: 02/28/2022

## SECTION A - BUDGET SUMMARY

Grant Program Function or Activity (a)	Catalog of Federal Domestic Assistance Number (b)	Estimated Unobligated Funds		New or Revised Budget		
		Federal (c)	Non-Federal (d)	Federal (e)	Non-Federal (f)	Total (g)
1. VADEQ - CSATAM Request FFY21 - 23	66.034	\$ 0.00	\$ 0.00	\$ 526,603.00	\$ 0.00	\$ 526,603.00
2.						
3.						
4.						
5. Totals		\$ 0.00	\$ 0.00	\$ 526,603.00	\$ 0.00	\$ 526,603.00

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### SECTION B - BUDGET CATEGORIES

6. Object Class Categories	GRANT PROGRAM, FUNCTION OR ACTIVITY				Total (5)
	(1) <div style="border: 1px solid black; padding: 5px; font-size: 0.8em;">VADEQ - CSATAM Request FFY21 - 23</div>	(2)	(3)	(4)	
<b>a. Personnel</b>	\$ <div style="border: 1px solid black; width: 100px; text-align: right;">29,421.00</div>	\$ <div style="border: 1px solid black; width: 100px;"></div>	\$ <div style="border: 1px solid black; width: 100px;"></div>	\$ <div style="border: 1px solid black; width: 100px;"></div>	\$ <div style="border: 1px solid black; width: 100px; text-align: right;">29,421.00</div>
<b>b. Fringe Benefits</b>	<div style="border: 1px solid black; width: 100px; text-align: right;">14,019.00</div>	<div style="border: 1px solid black; width: 100px;"></div>	<div style="border: 1px solid black; width: 100px;"></div>	<div style="border: 1px solid black; width: 100px;"></div>	<div style="border: 1px solid black; width: 100px; text-align: right;">14,019.00</div>
<b>c. Travel</b>	<div style="border: 1px solid black; width: 100px; text-align: right;">14,200.00</div>	<div style="border: 1px solid black; width: 100px;"></div>	<div style="border: 1px solid black; width: 100px;"></div>	<div style="border: 1px solid black; width: 100px;"></div>	<div style="border: 1px solid black; width: 100px; text-align: right;">14,200.00</div>
<b>d. Equipment</b>	<div style="border: 1px solid black; width: 100px; text-align: right;">206,800.00</div>	<div style="border: 1px solid black; width: 100px;"></div>	<div style="border: 1px solid black; width: 100px;"></div>	<div style="border: 1px solid black; width: 100px;"></div>	<div style="border: 1px solid black; width: 100px; text-align: right;">206,800.00</div>
<b>e. Supplies</b>	<div style="border: 1px solid black; width: 100px; text-align: right;">86,484.00</div>	<div style="border: 1px solid black; width: 100px;"></div>	<div style="border: 1px solid black; width: 100px;"></div>	<div style="border: 1px solid black; width: 100px;"></div>	<div style="border: 1px solid black; width: 100px; text-align: right;">86,484.00</div>
<b>f. Contractual</b>	<div style="border: 1px solid black; width: 100px; text-align: right;">145,144.00</div>	<div style="border: 1px solid black; width: 100px;"></div>	<div style="border: 1px solid black; width: 100px;"></div>	<div style="border: 1px solid black; width: 100px;"></div>	<div style="border: 1px solid black; width: 100px; text-align: right;">145,144.00</div>
<b>g. Construction</b>	<div style="border: 1px solid black; width: 100px; text-align: right;">0.00</div>	<div style="border: 1px solid black; width: 100px;"></div>	<div style="border: 1px solid black; width: 100px;"></div>	<div style="border: 1px solid black; width: 100px;"></div>	<div style="border: 1px solid black; width: 100px; text-align: right;">0.00</div>
<b>h. Other</b>	<div style="border: 1px solid black; width: 100px; text-align: right;">22,150.00</div>	<div style="border: 1px solid black; width: 100px;"></div>	<div style="border: 1px solid black; width: 100px;"></div>	<div style="border: 1px solid black; width: 100px;"></div>	<div style="border: 1px solid black; width: 100px; text-align: right;">22,150.00</div>
<b>i. Total Direct Charges (sum of 6a-6h)</b>	<div style="border: 1px solid black; width: 100px; text-align: right;">518,218.00</div>	<div style="border: 1px solid black; width: 100px;"></div>	<div style="border: 1px solid black; width: 100px;"></div>	<div style="border: 1px solid black; width: 100px;"></div>	\$ <div style="border: 1px solid black; width: 100px; text-align: right;">518,218.00</div>
<b>j. Indirect Charges</b>	<div style="border: 1px solid black; width: 100px; text-align: right;">8,385.00</div>	<div style="border: 1px solid black; width: 100px;"></div>	<div style="border: 1px solid black; width: 100px;"></div>	<div style="border: 1px solid black; width: 100px;"></div>	\$ <div style="border: 1px solid black; width: 100px; text-align: right;">8,385.00</div>
<b>k. TOTALS (sum of 6i and 6j)</b>	\$ <div style="border: 1px solid black; width: 100px; text-align: right;">526,603.00</div>	\$ <div style="border: 1px solid black; width: 100px;"></div>	\$ <div style="border: 1px solid black; width: 100px;"></div>	\$ <div style="border: 1px solid black; width: 100px;"></div>	\$ <div style="border: 1px solid black; width: 100px; text-align: right;">526,603.00</div>
<b>7. Program Income</b>	\$ <div style="border: 1px solid black; width: 100px; text-align: right;">0.00</div>	\$ <div style="border: 1px solid black; width: 100px;"></div>	\$ <div style="border: 1px solid black; width: 100px;"></div>	\$ <div style="border: 1px solid black; width: 100px;"></div>	\$ <div style="border: 1px solid black; width: 100px; text-align: right;">0.00</div>

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SECTION C - NON-FEDERAL RESOURCES					
(a) Grant Program		(b) Applicant	(c) State	(d) Other Sources	(e)TOTALS
8.	VADEQ - CSATAM Request FFY21 - 23	\$ <input style="width: 80%;" type="text" value="0.00"/>	\$ <input style="width: 80%;" type="text" value="0.00"/>	\$ <input style="width: 80%;" type="text" value="0.00"/>	\$ <input style="width: 80%;" type="text" value="0.00"/>
9.	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>
10.	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>
11.	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>
12. TOTAL (sum of lines 8-11)		\$ <input style="width: 80%;" type="text" value="0.00"/>	\$ <input style="width: 80%;" type="text" value="0.00"/>	\$ <input style="width: 80%;" type="text" value="0.00"/>	\$ <input style="width: 80%;" type="text" value="0.00"/>

SECTION D - FORECASTED CASH NEEDS						
		Total for 1st Year	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
13. Federal		\$ <input style="width: 80%;" type="text" value="410,229.00"/>	\$ <input style="width: 80%;" type="text" value="88,619.00"/>	\$ <input style="width: 80%;" type="text" value="131,671.00"/>	\$ <input style="width: 80%;" type="text" value="61,792.00"/>	\$ <input style="width: 80%;" type="text" value="128,147.00"/>
14. Non-Federal		\$ <input style="width: 80%;" type="text"/>	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>
15. TOTAL (sum of lines 13 and 14)		\$ <input style="width: 80%;" type="text" value="410,229.00"/>	\$ <input style="width: 80%;" type="text" value="88,619.00"/>	\$ <input style="width: 80%;" type="text" value="131,671.00"/>	\$ <input style="width: 80%;" type="text" value="61,792.00"/>	\$ <input style="width: 80%;" type="text" value="128,147.00"/>

SECTION E - BUDGET ESTIMATES OF FEDERAL FUNDS NEEDED FOR BALANCE OF THE PROJECT					
(a) Grant Program		FUTURE FUNDING PERIODS (YEARS)			
		(b)First	(c) Second	(d) Third	(e) Fourth
16.	VADEQ - CSATAM Request FFY21 - 23	\$ <input style="width: 80%;" type="text" value="89,943.00"/>	\$ <input style="width: 80%;" type="text" value="26,431.00"/>	\$ <input style="width: 80%;" type="text"/>	\$ <input style="width: 80%;" type="text"/>
17.	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>
18.	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>
19.	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>	<input style="width: 100%;" type="text"/>
20. TOTAL (sum of lines 16 - 19)		\$ <input style="width: 80%;" type="text" value="89,943.00"/>	\$ <input style="width: 80%;" type="text" value="26,431.00"/>	\$ <input style="width: 80%;" type="text"/>	\$ <input style="width: 80%;" type="text"/>

SECTION F - OTHER BUDGET INFORMATION	
21. Direct Charges: <input style="width: 95%;" type="text" value="\$518,218"/>	22. Indirect Charges: <input style="width: 95%;" type="text" value="Fixed rate; Base = \$29,421; IC = \$8,385"/>
23. Remarks: <input style="width: 100%;" type="text" value="Indirect costs are calculated by applying VADEQ's federally approved rate of 28.5% to a base of Personnel costs only."/>	

**COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL QUALITY**

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**Characterization and Risk Assessment of Air Toxics Metals  
in Southeast Virginia**

**WORK PLAN**

**OFFICE OF AIR QUALITY MONITORING  
September 16, 2020**



#### I. PROJECT TITLE:

Characterization and Risk Assessment of Air Toxics Metals in Southeast Virginia Information Technologies Agency

#### II. CATEGORY:

Community Scale Air Toxics Monitoring Project

#### III. APPLICANT INFORMATION

Organization: Virginia Department of Environmental Quality  
Contact: Charles L. Turner  
Manager, Office of Air Quality Monitoring  
4949-C Cox Road, Glen Allen, VA 23060  
Phone: (804) 527-5178  
Email: [charles.turner@deq.virginia.gov](mailto:charles.turner@deq.virginia.gov)

Namita Verma  
Air Data Quality Team Leader  
4949-C Cox Road  
Glen Allen VA 23060  
Phone: (804) 527-5190  
Email: [Namita.verma@deq.virginia.gov](mailto:Namita.verma@deq.virginia.gov)

#### IV. PROJECT SUMMARY/FUNDING

Virginia Department of Environmental Quality (DEQ) Office of Air Quality Monitoring (OAQM) has proposed a Community Scale Air Toxics Monitoring project for the Southeastern (Tidewater) Area of the Commonwealth of Virginia. This project is intended to characterize the ambient concentrations of air toxics metals and perform corresponding air quality and health risk assessments for two Tidewater communities: the Lambert's Point Community (LP) and Southeast community (SE) located in Norfolk and Newport News, respectively. Residents of these communities have long expressed concern about ambient coal dust and air quality [1]. Coal dust is known to contain metals, some of which may be present in toxic amounts. This project is designed to develop a local air quality characterization in these communities and perform an air quality and a health risk assessment for air toxics metals. The results of this characterization and the air quality and health assessments will inform future DEQ Strategic Plan objectives to improve air quality and community engagement in underserved communities.

This study will comprise five distinct phases:

- (1) Planning and siting of the samplers,
- (2) Collection and chemical analysis of ambient air metals samples,
- (3) Data validation and results summaries,
- (4) Health risk assessments, and
- (5) A final report incorporating recommendations for further actions and study.

To properly implement and execute this project VA DEQ will need the following support from EPA:

- Provide necessary funding to establish and operate the network consistent with the grant application
- Advise on technical and quality assurance issues.
- Monitor the project's progress and performance to verify the results

- Review and comment on project reports prepared during the execution of this project.

EPA approved a funding level of \$526,603 to implement this project. The funding is broken down as follows:

1.	Construction and Set-up costs		\$46,489.00
2.	Equipment		\$206,800.00
3.	Supplies and Materials		\$86,484.00
4.	Contractual		\$98,655.00
5.	Other Expenditures		\$22,150.00
6.	Travel		\$14,200.00
7.	Personnel		\$51,825.00
	Total		\$526,603.00

DEQ has committed to using the intern program in the Tidewater region to supply the routine filter changing labor for this project.

#### V. PROJECT PERIOD

The project is projected to take 3 years to complete. The activities are outlined in the table below.

Task	Year 1				Year 2				Year 3			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Evaluate sampler network												
Purchase samplers												
Research and select sensors												
Purchase sensors												
Site samplers and sensors												
Purchase T640X monitors												
Site T640X monitors												
Sample collection												
Analysis of samples												
Monitor air using T640X												
Data validation and summary												
Health risk assessments												
Final reports preparation												

The starting date of the project will be based on the award date of the grant. DEQ is projecting the award date to be in the fourth quarter of 2020.

#### VI. WORKPLAN

##### a. Statement of Work/Objectives

The primary objectives of this study are as follows:

- (i) Collect data on PM10, and ambient air toxics metals in the LP and SE communities with a network of FRM/FEM PM10 and TSP samplers along with air quality sensors;
- (ii) Characterize the spatial distribution of PM10 and air toxics metals in the LP and SE communities;
- (iii) Evaluate the health risks posed by the toxic metals in ambient air;
- (iv) Build the communities' capability to use the sensor network data and FEM-based data for ongoing community issues.

The sampling network at each location in this study will consist of one upwind site and up to four downwind sites. The existing air monitoring site at the NOAA facility on Front Street could serve as the upwind site for the Lambert's Point monitors. The downwind sites will be placed within the communities at locations that will "encircle" the source locations: Kinder-Morgan loading pier for SE community and Norfolk Southern Coal loading operation for LP community.

DEQ will evaluate each monitoring site to determine if the site will remain within the network after the study is complete. By establishing a community sensor network, DEQ expects to continue engagement opportunities with these communities, and to provide them with opportunities to shape how DEQ might be able to use information from low cost sensors and further engage with other communities.

#### b. TARGET POLLUTANTS

The target pollutants for this study are Arsenic, Beryllium, Cadmium, Chromium, Lead, Manganese, and Nickel. The Division of Consolidated Laboratory Services, the Virginia State Lab, will use method IO-3 and employ Inductively Coupled Plasma Mass Spectrometry (ICP-MS). The Laboratory maintains a complete set of SOPs for the performance on the metals analysis, the QA procedures and the data handling. The SOPs will be maintained at the laboratory and DEQ will have access to them.

#### c. WORK PRODUCTS

Outputs	Outcomes	Performance Measures
Database of air toxics metals data useful for both the communities and future EPA modeling efforts such as NATA	Toxic metals results provided to the AQS database	QA results from the sampler operations and data capture
Quarterly progress reports for the stakeholders	Possible FRM sampler siting, and continuous PM10 monitor siting (T640X)	Routine QA from laboratory operations
Health risk assessment evaluations	Increased and improved community awareness	Measure for increased community awareness: Google Analytics—retention, average session length, percent of user generated content, number of posts reported as inappropriate, DEQ response rate
Final data report, to include spatial concentration variation of metals in the two study areas	Increased community understanding of the health risks	100% of progress reports completed on time
Final project report, to include an analysis of possible relationships between the FEM/FRM metals data and sensor data	The continuous PM10 results will be posted on the DEQ website for public viewing	Minimally Semi-annual meetings with the LP and SE communities throughout the project.

The Table above details the work products to be delivered as part of this project. They are shown as Outputs on the table.

d. Personnel

The VADEQ Personnel involved in the execution of this project are:

Position	Primary	Backup
Regional Operator	Kelly Routh	Jason Hodges
OAQM Microscopist	Carolyn Stevens	Rudley Young
OAQM monitoring specialists	Brian King	Tom Drake
OAQM Data personnel	Namita Verma	Carolyn Stevens
OAQM Weighing Lab Support	Rudley Young	Trae Johnson
OAQM Management Support	Charles Turner	

## VII. DETAILED PROJECT BUDGET

### a. Budget **\$526,603.00**

The followings are details of the funding request for the proposed projects:

#### Construction and Set-up Costs

2 Trailer Repair and Preparation (\$3500 ea. to support the T640's)	\$7,000.00
16 Power installations (Where necessary @ \$2,000.00 ea.)	\$32,000.00
Miscellaneous (fencing, ground preparation, etc.)	\$7,489.00
<b>Total</b>	<b>\$46,489.00</b>

#### Equipment

Ten PM10 samplers (\$8600 ea.)	\$86,000.00
4 TSP samplers (\$5000 ea.)	\$20,000.00
2 T640X PM10/PM2.5 continuous samplers (\$37,000 ea.)	\$74,000.00
2 8872 data loggers (\$8400 each)	\$16,800.00
Microscopic Upgrade	\$10,000.00
<b>Total</b>	<b>\$206,800.00</b>

#### Supply

4 back up digital timers (\$800 ea.)	\$3,200.00
14 Router/Modems (\$950)	\$13,300.00
Calibration/Audit supplies (T640)	\$1,000.00
4 Flow Check Verification Hardware (\$1635 ea.)	\$6,540.00
Field Temperature and measurement Hardware	\$950.00
Filters (\$1880 per box)	\$29,154.00
PM10/TSP motors (\$140 ea.)	\$ 840.00
Cabling, brushes, electrical supplies	\$1,000.00
Assorted supplies - Gloves, tools lawn products, etc.	\$ 500.00
Sensor budget (approx. 10 at no more than \$3000 ea.)	\$30,000.00
<b>Total</b>	<b>\$86,484.00</b>

#### Contractual

Electrical Operating Costs Total	\$ 800.00
Sample Analysis Costs	\$71,148.00
DCLS Lab Support help	\$15,900.00
VDH Health Assessment Support	\$10,807.00
<b>Total</b>	<b>\$98,655.00</b>

Other Expenditures

Public Meetings (10 meetings @ \$100 rental)	\$1,000.00
Printed materials for meetings	\$2,000.00
Publication and distribution of quarterly information	\$ 400.00
Property rental for monitor siting	\$4,800.00
Local approvals and zoning compliance reviews	\$ 500.00
Site improvements	\$3,200.00
Utility Connections	\$4,600.00
Monthly Cell Charges	\$4,600.00
Postage/courier	\$1,050.00
<b>Total</b>	<b>\$22,150.00</b>

Travel – All travel in-state

Siting and Installation (6 visits – AQM to LP, SE)	\$1,000.00
Travel to 12 public meetings (Location to be determined)	\$ 600.00
Maintenance and repair travel (estimated 3 visits)	\$ 600.00
Travel to pick up and install filters (TRO to LP and SE)	\$12,000.00

**Total \$14,200.00**

<u>Personnel</u>	<u>Salary</u>	<u>Fringe*</u>	<u>Indirect</u>	<u>Total</u>
Regional Operator	\$3,793	\$1,808	\$1,081	\$6,682
OAQM Microscopist	\$7,650	\$3,635	\$2,180	\$13,465
OAQM monitoring specialists	\$3,788	\$1,803	\$1,080	\$6,671
OAQM Data personnel	\$3,937	\$1,882	\$1,122	\$6,941
OAQM Weighing Lab Support	\$2,717	\$1,301	\$ 774	\$4,792
OAQM Management Support	\$7,536	\$3,590	\$2,148	\$13,274
<b>Total</b>				<b>\$51,825</b>

DEQ applies an agency fringe rate, which varies each year. The range used here is 47% - 48%. Fringe components: Retirement, Social Security, Medicare, Group Life, Health Care, VSDP , Long Term Disability.

**b. Expenditure Schedule of Awarded Grant Funds**

Funds supporting this Project as delineated in the above budget will be expended throughout the life of the project. OAQM will submit project reports on a semi-annual basis documenting the project expenditures on an ongoing basis. The proposed expenditure schedule, consistent with Table 2 below, will proceed as follows:

<u>Milestones</u>	<u>Project Activities</u>	<u>Expenditures</u>
Year 1 Q1	Meetings with both Communities, Sampler purchase, Trailer Preparation, Initial Power installation, fencing where needed, Utility connections, personnel costs. OAQM personnel	88,619.18
Year 1 Q2	Installation completion, Samplers and sensors purchased, supplies purchased, portion of filters purchased, Local approvals, Utility connections, OAQM personnel cost	131,670.95
Year 1 Q3	Data loggers, additional supplies, public meeting, site rental, Sample analysis, finalized siting and utility connections, OAQM and DCLS personnel costs	61,791.79
Year 1 Q4	Final T640X costs, Filters, electrical operational costs, Sample analysis, ongoing personnel costs	128,147.57
Year 2 Q1	Ongoing consumables costs, public meetings, property rental costs, personnel costs	36,474.26

Year 2 Q2	Ongoing consumables, supply replenishment, ongoing electrical and analytical costs, personnel	28,235.65
Year 2 Q3	Ongoing consumables, public meetings, supply replenishment, ongoing electrical and analytical costs, personnel	13,073.35
Year 2 Q4	Electrical and analytical costs, OAQM, DCLS and VDH personnel costs.	12,159.69
Year 3 Q1	Public Meeting, Electrical and analytical costs, ongoing personnel costs	9,302.99
Year 3 Q2	Electrical and analytical costs, ongoing personnel costs	9,857.82
Year 3 Q3	Public Meeting, Electrical and analytical costs, ongoing personnel costs	4,318.63
Year 3 Q4	Electrical Costs, Personnel costs associated with project close out	2,951.17

## Other Attachment File(s)

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**\* Mandatory Other Attachment Filename:**

VADEQ - EPA Form 6600-06 - Val.pdf

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To add more "Other Attachment" attachments, please use the attachment buttons below.

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EPA Project Control Number

## CERTIFICATION REGARDING LOBBYING

### CERTIFICATION FOR CONTRACTS, GRANTS, LOANS AND COOPERATIVE AGREEMENTS

The undersigned certifies, to the best of his or her knowledge and belief, that:

(1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

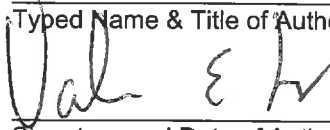
(2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

(3) The undersigned shall require that the language of this certification be included in the award documents for all sub-awards at all tiers (including sub-contracts, sub-grants, and contracts under grants, loans, and cooperative agreements) and that all sub-recipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31 U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

Valerie E. Thomson, Director of Administration

Typed Name & Title of Authorized Representative

 9/30/2000

Signature and Date of Authorized Representative

The public reporting and recordkeeping burden for this collection of information is estimated to average 15 minutes per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

COGNIZANT AGENCY  
NEGOTIATION AGREEMENT

Page 1 of 2

Commonwealth of Virginia  
Department of Environmental Quality  
Richmond, VA

Date: June 17, 2020

Filing Ref: May 31, 2019

The indirect cost rates contained herein are for use on grants and contracts with the Federal Government to which Office of Management and Budget Circular 2 CFR 200 applies, subject to the limitations contained in the Circular and in Section II, A below.

SECTION I: RATES

<u>Type</u>	<u>Effective Period</u>		<u>Rate</u>	<u>Base</u>
	<u>From</u>	<u>To</u>		
Fixed	7/1/2020	6/30/2021	28.50%	(a)

Basis for Application

(a) Direct salaries and wages excluding fringe benefits.

Treatment of Fringe Benefits: Fringe benefits applicable to direct salaries and wages are treated as direct costs and charged in accordance with rates established by the State.

SECTION II: GENERAL

A. LIMITATIONS: The rates in this Agreement are subject to any statutory and administrative limitations and apply to a given grant, contract or other agreement only to the extent that funds are available. Acceptance of the rates is subject to the following conditions: (1) Only costs incurred by the department/agency or allocated to the department/agency by an approved cost allocation plan were included in the indirect cost pool as finally accepted; such costs are legal obligations of the department/agency and are allowable under governing cost principles; (2) The same costs that have been treated as indirect costs have not been claimed as direct costs; (3) Similar types of costs have been accorded consistent accounting treatment; and (4) The information provided by the department/agency which was used to establish the rates is not later found to be materially incomplete or inaccurate by the Federal Government. In such situations the rate(s) would be subject to renegotiation at the discretion of the Federal Government.

B. CHANGES. The fixed rate contained in this agreement is based on the organizational structure and the accounting system in effect at the time the proposal was submitted. Changes in the organizational structure or changes in the method of accounting for costs which affect the amount of reimbursement resulting from use of the rate in this agreement, require the prior approval of the authorized representative of the responsible negotiation agency. Failure to obtain such approval may result in subsequent audit disallowances.

C. THE FIXED RATE contained in this agreement is based on an estimate of the cost which will be incurred during the period for which the rate applies. When the actual costs for such a period have been determined, an adjustment will be made in the negotiation following such determination to compensate for the difference between the cost used to establish the fixed rate and that which would have been used were the actual costs known at the time.

D. NOTIFICATION TO FEDERAL AGENCIES: Copies of this document may be provided to other Federal agencies as a means of notifying them of the agreement contained herein.

E. SPECIAL REMARKS: Please confirm your acceptance of the terms of the indirect cost rate agreement by signing and returning this letter to me. Please retain a copy for your records.

ACCEPTANCE

The undersigned official warrants  
that he/she has the proper authority  
to execute this agreement on  
the behalf of the State Agency:

By the Federal Agency:

Valerie E. Thomson  
(Signature)

Valerie E. Thomson  
(Name)

Director of Administration  
(Title)

VA DER  
(Agency)

6/22/2020  
(Date)

JACQUELINE  
SMITH

Digitally signed by  
JACQUELINE SMITH  
Date: 2020.06.17 15:29:56  
-04'00'

(Signature)

National Policy, Training and  
Compliance Division  
U.S. Environmental Protection  
Agency

Negotiated by: Jacqueline Smith  
Telephone: 202-564-5055